

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P367012

Luminaire Tested: **PMM-SA1D-727-U-T3**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1D-727-U-T3  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

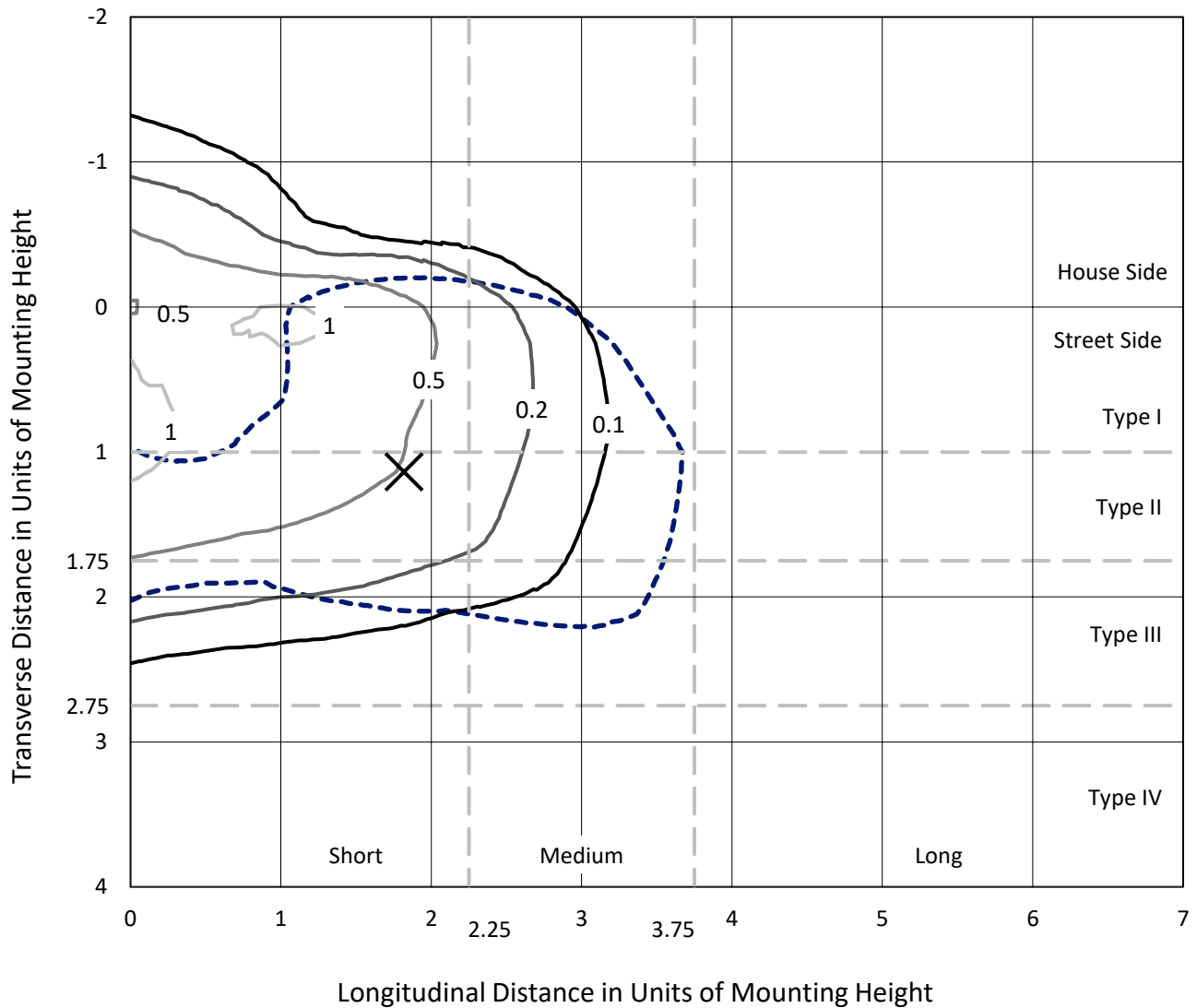
Lumens per Lamp: N/A  
Luminaire Lumens: 5727 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

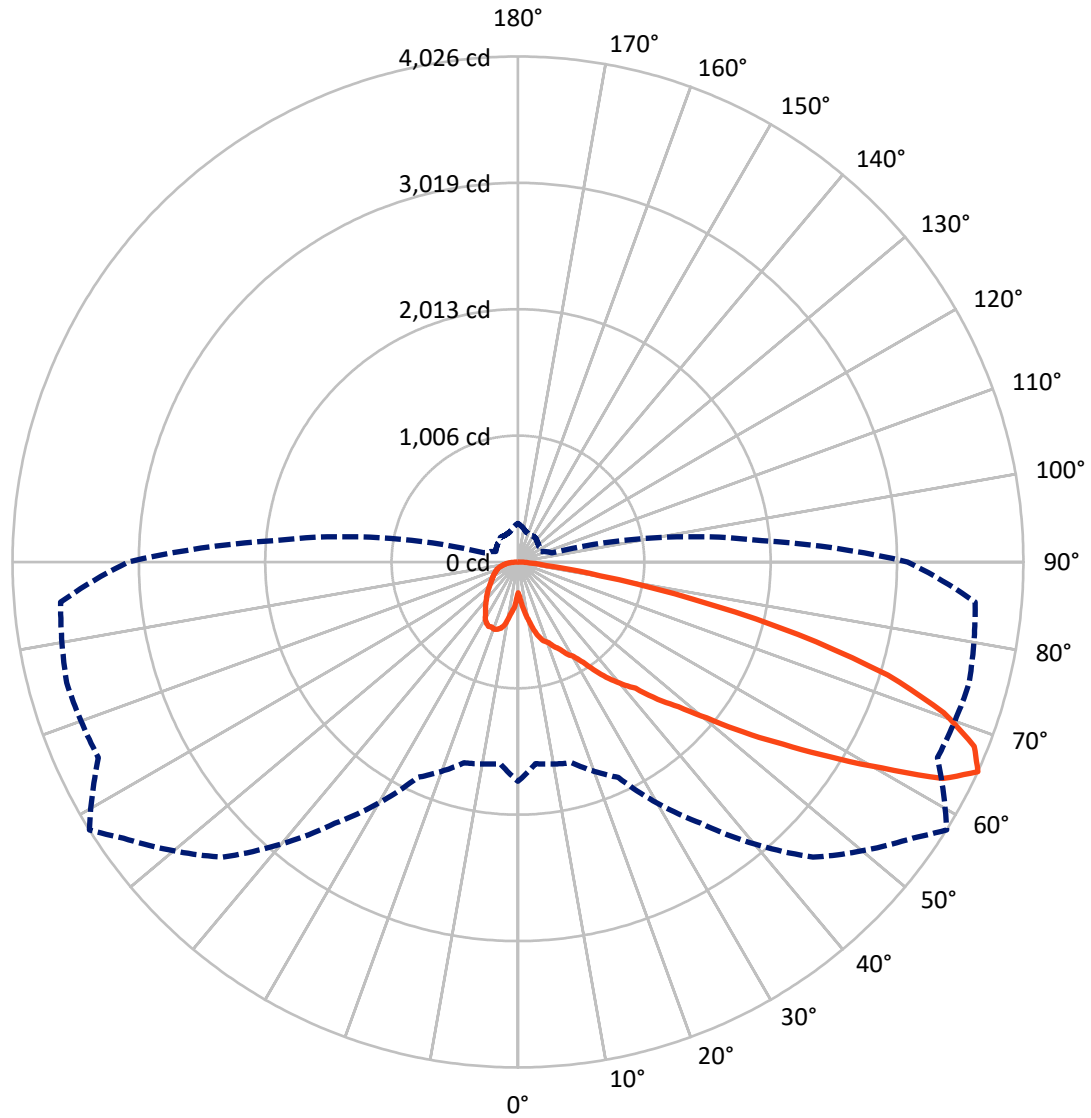
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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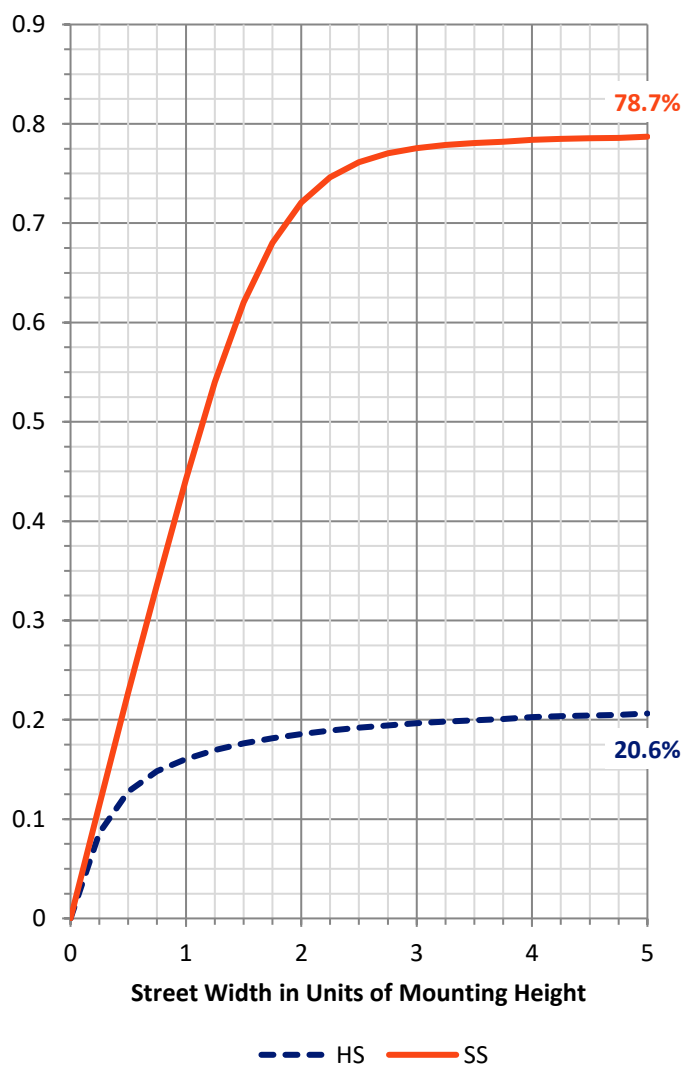
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1206.3   | 0.0    | 1206.3 |
|                    | % Fixture | 21.1     | 0.0    | 21.1   |
| <b>Street Side</b> | Lumens    | 4520.7   | 0.0    | 4520.7 |
|                    | % Fixture | 78.9     | 0.0    | 78.9   |
| <b>Total</b>       | Lumens    | 5727.0   | 0.0    | 5727.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.5   | 0.7       |
| 10°-20°   | 163.4  | 2.9       |
| 20°-30°   | 313.6  | 5.5       |
| 30°-40°   | 517.8  | 9.0       |
| 40°-50°   | 860.6  | 15.0      |
| 50°-60°   | 1421.3 | 24.8      |
| 60°-70°   | 1594.4 | 27.8      |
| 70°-80°   | 724.9  | 12.7      |
| 80°-90°   | 93.5   | 1.6       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5727.0 | 100.0     |
| 0°-180°   | 5727.0 | 100.0     |

**Coefficient of Utilization**



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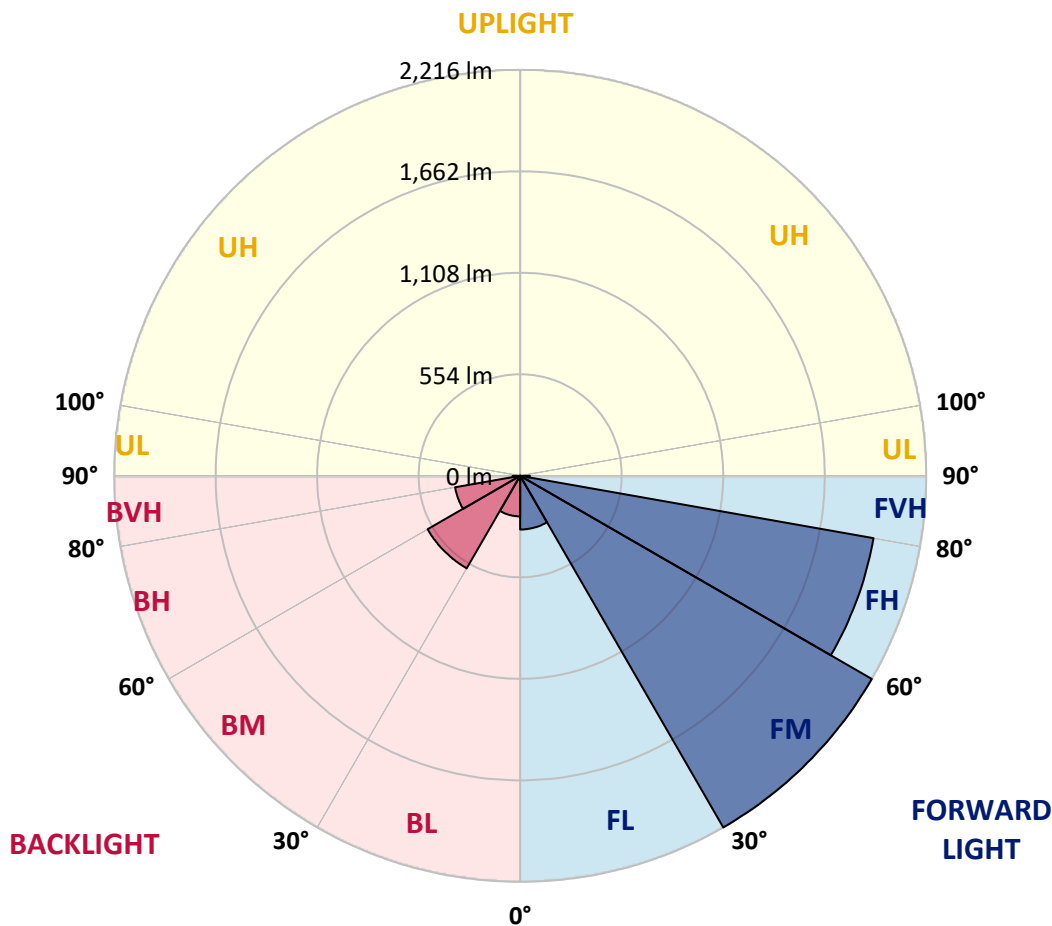
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 293.1  | 5.1       |                         |      |         |
| FM (30°-60°)   | 2216.3 | 38.7      |                         |      |         |
| FH (60°-80°)   | 1958.8 | 34.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 52.6   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 221.5  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 583.4  | 10.2      | B1/1000                 |      |         |
| BH (60°-80°)   | 360.6  | 6.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 40.9   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 245.9  | 245.9  | 245.9  | 245.9  | 245.9  | 245.9  | 245.9  | 245.9  | 245.9  | 245.9  | 245.9  |
| 2.5°  | 293.6  | 284.8  | 270.0  | 273.6  | 282.1  | 286.9  | 284.1  | 280.2  | 275.2  | 274.3  | 296.2  |
| 5°    | 380.2  | 363.2  | 356.3  | 353.5  | 343.0  | 336.8  | 347.5  | 346.1  | 351.8  | 362.3  | 383.7  |
| 7.5°  | 443.4  | 431.4  | 420.0  | 418.8  | 398.5  | 391.4  | 405.7  | 413.3  | 423.6  | 423.8  | 452.9  |
| 10°   | 477.2  | 467.0  | 466.7  | 456.0  | 454.3  | 467.9  | 468.2  | 473.9  | 475.1  | 487.3  | 481.5  |
| 12.5° | 514.0  | 513.2  | 526.4  | 526.1  | 541.4  | 563.8  | 552.6  | 552.6  | 555.9  | 541.2  | 559.3  |
| 15°   | 601.5  | 609.1  | 584.6  | 588.6  | 588.6  | 610.6  | 609.8  | 614.1  | 624.4  | 620.6  | 612.5  |
| 17.5° | 692.6  | 697.4  | 670.2  | 644.9  | 646.8  | 642.0  | 659.2  | 660.9  | 651.1  | 695.5  | 685.7  |
| 20°   | 751.3  | 769.9  | 712.6  | 680.9  | 687.1  | 692.6  | 693.3  | 683.1  | 678.0  | 746.3  | 732.9  |
| 22.5° | 823.8  | 808.0  | 755.6  | 720.5  | 729.8  | 722.4  | 721.0  | 728.8  | 735.8  | 761.5  | 783.2  |
| 25°   | 872.2  | 871.0  | 808.0  | 769.6  | 759.4  | 757.2  | 771.8  | 768.7  | 785.1  | 831.9  | 818.3  |
| 27.5° | 942.5  | 964.5  | 852.9  | 862.4  | 817.3  | 769.9  | 816.6  | 830.7  | 860.3  | 852.6  | 882.9  |
| 30°   | 1079.0 | 1062.5 | 945.9  | 943.3  | 892.2  | 852.4  | 884.8  | 872.9  | 926.1  | 924.4  | 946.8  |
| 32.5° | 1190.3 | 1201.8 | 1055.1 | 1027.7 | 989.8  | 941.8  | 920.4  | 953.5  | 982.1  | 1029.1 | 1041.8 |
| 35°   | 1308.2 | 1305.5 | 1167.0 | 1111.6 | 1048.9 | 1029.1 | 1055.6 | 1069.4 | 1130.2 | 1173.4 | 1143.4 |
| 37.5° | 1491.3 | 1470.6 | 1312.0 | 1207.3 | 1160.3 | 1153.1 | 1198.5 | 1178.4 | 1244.2 | 1254.5 | 1271.4 |
| 40°   | 1661.6 | 1599.1 | 1444.6 | 1324.6 | 1250.0 | 1276.7 | 1278.1 | 1280.7 | 1316.0 | 1343.9 | 1427.6 |
| 42.5° | 1823.6 | 1779.7 | 1579.3 | 1489.2 | 1379.2 | 1353.2 | 1369.5 | 1374.9 | 1464.1 | 1521.1 | 1637.0 |
| 45°   | 2044.9 | 1927.3 | 1773.0 | 1680.5 | 1557.4 | 1524.2 | 1512.8 | 1560.0 | 1646.1 | 1775.9 | 1875.3 |
| 47.5° | 2232.1 | 2126.0 | 1978.8 | 1856.9 | 1719.3 | 1814.0 | 1749.1 | 1722.7 | 1838.3 | 1999.1 | 2157.5 |
| 50°   | 2387.4 | 2270.5 | 2126.2 | 2055.9 | 2033.9 | 2118.3 | 1950.0 | 1953.1 | 2059.0 | 2285.8 | 2467.3 |
| 52.5° | 2507.6 | 2382.8 | 2255.0 | 2219.2 | 2341.8 | 2390.5 | 2268.8 | 2250.5 | 2327.7 | 2595.8 | 2813.8 |
| 55°   | 2619.9 | 2487.5 | 2388.8 | 2461.8 | 2668.3 | 2673.8 | 2665.2 | 2563.4 | 2656.4 | 2928.0 | 3172.5 |
| 57.5° | 2648.8 | 2506.1 | 2440.5 | 2545.2 | 2824.5 | 3041.8 | 3127.2 | 2927.3 | 3022.0 | 3230.2 | 3479.7 |
| 60°   | 2500.2 | 2378.1 | 2351.8 | 2494.0 | 2909.0 | 3226.6 | 3449.6 | 3330.1 | 3294.6 | 3472.8 | 3694.8 |
| 62.5° | 2195.8 | 2054.2 | 2075.4 | 2272.9 | 2820.0 | 3299.9 | 3704.3 | 3797.6 | 3582.5 | 3665.7 | 3788.8 |
| 65°   | 1747.7 | 1612.5 | 1655.4 | 1893.0 | 2540.7 | 3324.2 | 3834.6 | 4025.8 | 3686.5 | 3720.3 | 3655.7 |
| 67.5° | 1232.6 | 1109.7 | 1163.9 | 1471.1 | 2113.6 | 3012.7 | 3857.0 | 3919.5 | 3575.8 | 3564.6 | 3292.2 |
| 70°   | 698.3  | 621.3  | 680.0  | 936.1  | 1491.8 | 2400.0 | 3681.2 | 3598.9 | 3377.4 | 3218.5 | 2754.6 |
| 72.5° | 320.3  | 293.8  | 322.0  | 476.5  | 858.8  | 1597.0 | 3005.3 | 3080.0 | 2910.2 | 2711.5 | 2095.7 |
| 75°   | 170.3  | 161.0  | 172.9  | 238.0  | 401.9  | 868.8  | 2135.3 | 2303.2 | 2212.8 | 2056.6 | 1367.1 |
| 77.5° | 126.6  | 119.5  | 125.2  | 154.3  | 214.6  | 339.9  | 1213.2 | 1425.0 | 1459.4 | 1315.6 | 759.1  |
| 80°   | 97.1   | 91.3   | 97.1   | 116.6  | 148.6  | 161.5  | 518.7  | 664.2  | 756.5  | 611.3  | 301.7  |
| 82.5° | 72.0   | 68.2   | 77.0   | 87.5   | 104.5  | 100.9  | 184.1  | 229.2  | 295.5  | 202.0  | 117.6  |
| 85°   | 57.2   | 52.5   | 55.8   | 59.4   | 66.8   | 55.3   | 84.2   | 94.2   | 99.7   | 83.5   | 43.4   |
| 87.5° | 22.4   | 20.7   | 40.5   | 32.0   | 27.2   | 16.7   | 25.3   | 28.6   | 29.3   | 28.1   | 12.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 245.9  | 245.9  | 245.9 | 245.9 | 245.9 | 245.9 | 245.9 | 245.9 | 245.9 | 245.9 | 245.9 |
| 2.5°  | 298.6  | 296.2  | 282.1 | 286.7 | 294.1 | 295.5 | 298.6 | 290.0 | 285.7 | 301.5 | 302.2 |
| 5°    | 385.7  | 372.8  | 366.1 | 366.8 | 362.0 | 354.6 | 365.9 | 373.2 | 376.1 | 387.8 | 392.1 |
| 7.5°  | 453.1  | 437.6  | 426.4 | 413.6 | 395.4 | 383.7 | 403.3 | 417.6 | 425.2 | 449.6 | 459.1 |
| 10°   | 483.2  | 470.8  | 468.4 | 452.2 | 451.7 | 451.5 | 450.5 | 445.5 | 462.0 | 459.6 | 466.3 |
| 12.5° | 545.2  | 542.6  | 519.9 | 513.5 | 514.2 | 513.5 | 493.5 | 492.5 | 492.7 | 514.7 | 506.8 |
| 15°   | 602.9  | 603.4  | 582.7 | 559.3 | 538.3 | 531.9 | 524.0 | 520.4 | 525.6 | 538.1 | 530.4 |
| 17.5° | 674.2  | 676.6  | 617.2 | 580.3 | 552.6 | 551.9 | 533.0 | 510.9 | 542.8 | 550.5 | 542.1 |
| 20°   | 720.3  | 710.2  | 637.3 | 575.3 | 567.4 | 545.9 | 522.5 | 492.0 | 519.7 | 538.3 | 543.5 |
| 22.5° | 763.9  | 746.5  | 655.9 | 584.1 | 546.4 | 520.9 | 498.2 | 478.4 | 487.3 | 508.0 | 504.7 |
| 25°   | 793.5  | 788.7  | 681.6 | 605.3 | 545.7 | 488.9 | 458.4 | 445.8 | 450.3 | 482.5 | 479.4 |
| 27.5° | 864.1  | 812.6  | 677.1 | 610.8 | 522.8 | 445.3 | 430.0 | 416.4 | 411.9 | 446.7 | 456.2 |
| 30°   | 911.3  | 890.1  | 707.4 | 602.2 | 493.9 | 409.5 | 387.1 | 384.2 | 385.7 | 425.2 | 427.9 |
| 32.5° | 991.4  | 936.3  | 757.0 | 569.3 | 452.0 | 383.0 | 357.3 | 358.5 | 364.9 | 393.8 | 399.7 |
| 35°   | 1074.9 | 1042.0 | 763.7 | 545.7 | 417.8 | 354.9 | 344.4 | 336.0 | 339.6 | 364.9 | 366.1 |
| 37.5° | 1229.9 | 1116.2 | 804.7 | 509.2 | 392.8 | 344.2 | 324.1 | 316.7 | 318.6 | 332.9 | 343.2 |
| 40°   | 1366.4 | 1265.2 | 785.6 | 473.9 | 361.8 | 329.8 | 304.8 | 299.3 | 293.6 | 307.7 | 314.1 |
| 42.5° | 1585.1 | 1371.6 | 779.2 | 435.0 | 347.3 | 310.5 | 293.4 | 278.8 | 273.3 | 285.2 | 296.9 |
| 45°   | 1803.8 | 1484.4 | 744.1 | 395.7 | 326.7 | 309.1 | 276.7 | 262.8 | 264.3 | 275.0 | 286.9 |
| 47.5° | 2047.5 | 1635.9 | 684.7 | 357.5 | 304.3 | 302.2 | 260.0 | 254.0 | 258.3 | 270.2 | 282.1 |
| 50°   | 2335.6 | 1796.6 | 635.6 | 323.2 | 288.3 | 281.4 | 257.8 | 250.7 | 254.7 | 268.8 | 280.5 |
| 52.5° | 2650.7 | 1972.9 | 599.8 | 291.4 | 270.2 | 265.0 | 260.7 | 253.8 | 258.5 | 270.7 | 282.9 |
| 55°   | 2963.8 | 2133.8 | 575.5 | 269.7 | 254.7 | 258.1 | 266.6 | 261.6 | 264.0 | 273.1 | 285.2 |
| 57.5° | 3196.1 | 2218.7 | 526.6 | 246.6 | 242.1 | 254.0 | 267.4 | 259.0 | 260.4 | 273.1 | 286.2 |
| 60°   | 3331.1 | 2235.0 | 446.2 | 227.8 | 232.1 | 245.9 | 260.0 | 249.2 | 248.3 | 269.0 | 285.5 |
| 62.5° | 3316.3 | 2140.8 | 353.9 | 210.6 | 220.6 | 233.7 | 248.8 | 238.5 | 241.1 | 269.5 | 286.9 |
| 65°   | 3104.5 | 1948.3 | 281.4 | 196.0 | 206.8 | 220.4 | 239.5 | 235.4 | 248.0 | 288.6 | 307.4 |
| 67.5° | 2732.5 | 1667.1 | 226.1 | 182.5 | 193.9 | 211.3 | 245.9 | 256.6 | 262.1 | 308.1 | 327.5 |
| 70°   | 2214.5 | 1295.3 | 188.4 | 170.5 | 183.6 | 215.6 | 264.5 | 262.3 | 257.8 | 298.8 | 314.1 |
| 72.5° | 1599.8 | 887.9  | 165.8 | 158.8 | 171.0 | 202.7 | 265.0 | 253.5 | 247.8 | 272.8 | 283.8 |
| 75°   | 1001.0 | 529.7  | 144.8 | 144.1 | 151.7 | 181.7 | 253.0 | 242.8 | 227.3 | 239.7 | 254.0 |
| 77.5° | 571.7  | 271.2  | 121.9 | 128.3 | 132.8 | 157.6 | 226.6 | 217.3 | 203.4 | 208.7 | 222.8 |
| 80°   | 218.2  | 131.2  | 102.8 | 114.0 | 112.8 | 133.6 | 192.0 | 189.8 | 174.1 | 175.8 | 184.4 |
| 82.5° | 102.8  | 73.5   | 85.4  | 98.0  | 91.6  | 106.4 | 156.0 | 155.3 | 141.4 | 128.1 | 135.0 |
| 85°   | 38.2   | 39.1   | 62.5  | 74.6  | 63.7  | 68.7  | 112.8 | 109.7 | 96.4  | 81.3  | 89.9  |
| 87.5° | 8.6    | 14.1   | 30.8  | 38.9  | 22.2  | 21.2  | 45.6  | 39.6  | 38.2  | 22.7  | 23.8  |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)